PCT

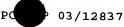


INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference			ransmittal of International Search Report) as well as, where applicable, item 5 below.
H1022754PCT International application No.	International filing date (day/mo	onth/vear)	(Earliest) Priority Date (day/month/year)
monadora approación de			
PCT/JP 03/12837	07/10/200	03	21/10/2002
Applicant			
HONDA MOTOR CO., LTD.			
This International Search Report has been according to Article 18. A copy is being tra	n prepared by this International S ansmitted to the International Bur	Searching Authori reau.	ity and is transmitted to the applicant
This International Search Report consists	of a total of 4	shoots	
	a copy of each prior art documer		port.
	,	•	
1. Basis of the report			
 With regard to the language, the language in which it was filed, uni 	international search was carried of ess otherwise indicated under this	out on the basis of item.	of the International application in the
the international search w Authority (Rule 23.1(b)).	as carried out on the basis of a tr	ranslation of the i	international application furnished to this
 With regard to any nucleotide an was carried out on the basis of the 		losed in the Interr	national application, the international search
contained in the internation	nal application in written form.		•
filed together with the inte	rnational application In computer	readable form.	
furnished subsequently to	this Authority in written form.		
furnished subsequently to	this Authority in computer readbl	le form.	
	sequently furnished written seques sequently furnished written seques furnished.	ence listing does	s not go beyond the disclosure in the
the statement that the info furnished	rmation recorded in computer rea	adable form is ide	entical to the written sequence listing has been
2. Certain claims were four	nd unsearchable (See Box I).		
3. Unity of invention is lact	king (see Box II).		
4. With regard to the title,			
the text is approved as su	bmitted by the applicant.		
X the text has been establish	hed by this Authority to read as fo	ollows:	
terrand .	T AND METHOD FOR CO	NTROLLING .	AN IGNITION TIMING OF AN
INTERNAL-COMBUSTION EN	GINE		
5. With regard to the abstract,			
the text is approved as su			
x the text has been establish within one month from the	ned, according to Rule 38.2(b), by date of mailing of this internation	y this Authority as nal search report,	s it appears in Box III. The applicant may, submit comments to this Authority.
6. The figure of the drawings to be publi	shed with the abstract is Figure N	No.	1,3
as suggested by the applic	cant.		None of the figures.
because the applicant faile	ed to suggest a figure.		
X because this figure better	characterizes the inventions (

International application No.



Box III TEXT OF THE ABSTRACT (Continuation of item 5 of the first sheet)

An ignition timing value of the internal-combustion engine is calculated by using correction terms including a first correction term that is calculated based on a controlled variable without reflecting a desired value and a second correction term that is calculated based on a difference between the controlled variable and the desired value. The first correction term can be calculated based on the controlled variable with no influence of the desired value. Thus, a sudden change does not occur in the feedback controlled variable even in a situation where the difference between the controlled variable and the desired value changes step-wise. Besides, the first correction term is a proportional term (51) and the second correction term is an integral term (55). The controlled variable is a rotational speed of the internal-combustion engine (NE) that is detected by a detector for detecting the engine rotational speed.

INTERNATIONAL SEARCH REPORT

international Application No PCT/1203/12837

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 F02P5/15

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) IPC 7 - F02P

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.	
Х	EP 1 010 880 A (HONDA MOTOR CO LTD) 21 June 2000 (2000-06-21) paragraphs '0103!,'0104!,'0114!-'0118!,'0160!; claim 3; figures 10-12	1-4	
X	EP 1 079 089 A (TOYOTA MOTOR CO LTD) 28 February 2001 (2001-02-28) paragraphs '0155!-'0162!; figure 18	1-3	
X	US 5 492 094 A (DONA ALAN R ET AL) 20 February 1996 (1996-02-20) claims 3,4; figures 3,4 column 3, line 39-41 column 5, line 64 column 6, line 1-3	1	

Further documents are listed in the continuation of box C.	Patent family members are listed in annex.	
Special categories of cited documents: A' document defining the general state of the art which is not considered to be of particular relevance E' earlier document but published on or after the international filling date C' document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) O' document referring to an oral disclosure, use, exhibition or other means document published prior to the international filling date but later than the priority date claimed	 'T' later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention 'X' document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone 'Y' document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. '&' document member of the same patent family 	
Date of the actual completion of the international search	Date of mailing of the international search report	
7 January 2004	19/01/2004	
Name and mailing address of the ISA	Authorized officer	
European Patent Office, P.B. 5818 Patentlaan 2 NL = 2280 HV Rijswijk Tël: (+31-70) 340-2040, Tx: 31 651 epo nl; Fax: (+31-70) 340-3016	Ulivieri, E	700 T. T

INTERNATIONAL SEARCH REPORT

info on on patent family members

PCT 03/12837

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EP 1079089	Α	28-02-2001	JP JP EP US	2001059443 A 2001090581 A 1079089 A2 6505594 B1	06-03-2001 03-04-2001 28-02-2001 14-01-2003
US 5492094	Α	20-02-1996	DE DE EP	69619590 D1 69619590 T2 0747588 A2	11-04-2002 18-07-2002 11-12-1996